

Claims

1 1. Motor pump unit, particularly a motor vehicle braking device, including in an
2 axial one-behind-the-other sandwich arrangement:

3 - a motor housing,

4 - a pump housing, and

5 - an electronics housing, comprising:

6 - at least two plug-type supply and control lines insulated electrically from
7 each other leading through the pump housing to the electronics housing;

8 - a brush support plate for securely fixing the plug-type supply and control
9 lines on the motor housing, wherein the plug-type supply and control lines
10 are configured in an axially rigid manner;

11 - wherein the plug-type supply and control lines can be plugged in to make
12 contact with an electronics unit in the electronics housing whilst supported
13 axially in respect of the motor housing;

14 - wherein the plug-type supply and control lines are fixed radially outside the
15 motor housing to a fastening flange of the brush support plate projecting
16 radially above the edge of the motor housing; and wherein

17 - the brush support plate can be supported by at least one external supporting
18 rib on the outer periphery of the motor housing counter to the plug
19 connection of the supply and control lines.

1 2. Motor pump unit according to Claim 1 wherein the at least one supporting rib
2 is fixed to the radially projecting fastening flange.

1 3. Motor pump unit according to Claim 1 wherein the at least one supporting rib
2 and the fastening flange form a single component of the brush support plate,
3 particularly a single injection-molded plastic component.

1 4. Motor pump unit according to Claim 1 wherein the arrangement of the at least
2 one supporting rib is arranged or configured so that it is subject to an operating
3 pressure when supported on the motor housing.

1 5. Motor pump unit according to Claim 1 wherein the plug-type supply and
2 control lines are configured as flat plug-in tongues and can be moved flexibly across
3 their longitudinal extension for the purposes of tolerance compensation.

1 6. Motor pump unit according to Claim 1 wherein
2 - the plug-type supply and control lines are components, particularly single,
3 bent components produced by bending and punching, of a punched lattice
4 accommodated by the brush support plate; and
5 - the plug-type supply and control lines are embedded in an elastic insulating
6 sleeve.

1 7. Motor pump unit according to Claim 6 wherein the elastic insulating sleeve
2 can be attached to the plug-type supply and control lines as a pre-assembled
3 component, particularly from the latter's free ends facing the electronics housing.

1 8. Motor pump unit according to Claim 7 wherein a common elastic insulating
2 sleeve is provided for at least two, preferably parallel, plug-type supply and control
3 lines.

1 9. Motor pump unit according to Claim 1 wherein during assembly of the motor
2 housing pre-fitted with the brush support plate with the pump housing and the
3 electronics housing, the plug-type supply and control lines can be forced to make
4 contact with the corresponding connector component on said housing.

1 10. Motor pump unit including a motor housing, a pump housing, and an
2 electronics housing comprising:

3 - at least two plug-type supply and control lines configured in an axially rigid
4 manner and insulated electrically from each other leading through the pump
5 housing to the electronics housing;
6 - a brush support plate for securely fixing the plug-type supply and control
7 lines on the motor housing;
8 - an electronics unit in the electronics housing and means for plugging in the
9 plug-type supply and control lines to make contact with the electronics unit;
10 - a fastening flange projecting radially above the edge of the motor housing for
11 radially fixing the plug-type supply and control line; and
12 - at least one external supporting rib for supporting the brush support plate on
13 the outer periphery of the motor housing counter to the plug connection of
14 the supply and control lines.

1 11. Motor pump unit according to Claim 10 wherein the at least one supporting rib
2 is fixed to the radially projecting fastening flange.

1 12. Motor pump unit according to Claim 10 wherein the at least one supporting
2 rib and the fastening flange form a single component of the brush support plate,
3 particularly a single injection-molded plastic component.

1 13. Motor pump unit according to Claim 10 wherein the arrangement of the at least
2 one supporting rib is arranged or configured so that it is subject to an operating
3 pressure when supported on the motor housing.

1 14. Motor pump unit according to Claim 10 wherein the plug-type supply and
2 control lines are configured as flat plug-in tongues and can be moved flexibly across
3 their longitudinal extension for the purposes of tolerance compensation.

- 1 15. Motor pump unit according to Claim 10 wherein
- 2 - the plug-type supply and control lines are components, particularly single,
- 3 bent components produced by bending and punching, of a punched lattice
- 4 accommodated by the brush support plate; and
- 5 - the plug-type supply and control lines are embedded in an elastic insulating
- 6 sleeve.
- 1 16. Motor pump unit according to Claim 15 wherein the elastic insulating sleeve
- 2 can be attached to the plug-type supply and control lines as a pre-assembled
- 3 component, particularly from the latter's free ends facing the electronics housing.
- 1 17. Motor pump unit according to Claim 16 wherein a common elastic insulating
- 2 sleeve is provided for at least two, preferably parallel, plug-type supply and control
- 3 lines.
- 1 18. Motor pump unit according to Claim 10 wherein during assembly of the motor
- 2 housing pre-fitted with the brush support plate with the pump housing and the
- 3 electronics housing, the plug-type supply and control lines can be forced to make
- 4 contact with the corresponding connector component on said housing.